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ABSTRACT

Hindustani music is found to have an additional 22 *thatas* that can be scientifically and accurately computed. Together with the 10 *thatas* already identified, these newly identified and compiled *thatas* make a total 32 *thatas*. In a further aspect, a *raag* or melody is constructed by a combination of ascending and descending notes by selecting a *thata*, and computing a combination including at least 5 ascending or descending notes for the *thata*. Using this method, new *raagas* can be created using not only the existing 22 *thatas*, but also from the 22 newly discovered *thatas*. Further, new musical instruments can be constructed by applying the newly identified *thatas*. Students of music may be taught new tunes based on the 32 *thatas*.